

1 **ACGME Program Requirements for Graduate Medical Education**
2 **in Surgical Critical Care**

3
4 **One-year Common Program Requirements are in BOLD**

5
6 Effective: July 1, 2012

7
8 **Introduction**

9
10 **Int.A. Residency and fellowship programs are essential dimensions of the**
11 **transformation of the medical student to the independent practitioner along**
12 **the continuum of medical education. They are physically, emotionally, and**
13 **intellectually demanding, and require longitudinally-concentrated effort on**
14 **the part of the resident or fellow.**

15
16 **The specialty education of physicians to practice independently is**
17 **experiential, and necessarily occurs within the context of the health care**
18 **delivery system. Developing the skills, knowledge, and attitudes leading to**
19 **proficiency in all the domains of clinical competency requires the resident**
20 **and fellow physician to assume personal responsibility for the care of**
21 **individual patients. For the resident and fellow, the essential learning**
22 **activity is interaction with patients under the guidance and supervision of**
23 **faculty members who give value, context, and meaning to those**
24 **interactions. As residents and fellows gain experience and demonstrate**
25 **growth in their ability to care for patients, they assume roles that permit**
26 **them to exercise those skills with greater independence. This concept—**
27 **graded and progressive responsibility—is one of the core tenets of**
28 **American graduate medical education. Supervision in the setting of**
29 **graduate medical education has the goals of assuring the provision of safe**
30 **and effective care to the individual patient; assuring each resident’s and**
31 **fellow’s development of the skills, knowledge, and attitudes required to**
32 **enter the unsupervised practice of medicine; and establishing a foundation**
33 **for continued professional growth.**

34
35 **Int.B. Definition and Scope of the Subspecialty**

36
37 **Int.B.1. Surgical critical care is a subspecialty of surgery that manages complex**
38 **surgical and medical problems in critically-ill surgical patients. Graduate**
39 **educational programs in surgical critical care provide the educational,**
40 **clinical, and administrative resources to allow fellows to develop**
41 **advanced proficiency in the management of critically-ill surgical patients,**
42 **to develop the qualifications necessary to supervise surgical critical care**
43 **units, and to conduct scholarly activities in surgical critical care. The**
44 **educational programs enhance and are an integral part of an**
45 **Accreditation Council for Graduate Medical Education (ACGME)-**
46 **accredited core program in surgery.**

47
48 **Int.B.2. The goal of a surgical critical care fellowship program is to prepare the**
49 **fellow to function as a qualified practitioner at the advanced level of**
50 **performance expected of a Board-certified subspecialist. The education of**
51 **surgeons in the practice of surgical critical care encompasses didactic**

52 instruction in the basic and clinical sciences of surgical diseases and
53 conditions, as well as education in procedural skills and techniques used
54 in the intensive care settings. This educational process leads to the
55 acquisition of an appropriate fund of knowledge and technical skills, the
56 ability to integrate the acquired knowledge into the clinical situation, and
57 the development of judgment.
58

59 Int.C. The educational program in surgical critical care must be 12 months in
60 length.
61

62 **I. Institutions**

63
64 **I.A. Sponsoring Institution**

65
66 **One sponsoring institution must assume ultimate responsibility for the**
67 **program, as described in the Institutional Requirements, and this**
68 **responsibility extends to fellow assignments at all participating sites.**
69

70 **The sponsoring institution and the program must ensure that the program**
71 **director has sufficient protected time and financial support for his or her**
72 **educational and administrative responsibilities to the program.**
73

74 I.A.1. The sponsoring institution must provide the program director with a
75 minimum of 10% protected time or direct salary support or indirect salary
76 support, such as release from clinical activities.
77

78 I.A.2. The sponsoring institution must also sponsor an ACGME-accredited
79 residency program in pediatric surgery, surgery, thoracic surgery, or
80 vascular surgery.
81

82 I.A.2.a) There must be interaction between the core residency program in
83 pediatric surgery, surgery, thoracic surgery, or vascular surgery
84 and the fellowship program which results in coordination of
85 educational, clinical, and investigative activities.
86

87 I.A.3. Any institution that sponsors more than one critical care program must
88 coordinate interdisciplinary requirements to ensure that fellows meet the
89 specific criteria of their primary specialties.
90

91 I.A.4. It is strongly suggested that the sponsoring institution also sponsor
92 ACGME-accredited residency programs in those specialties that relate
93 particularly to surgery, such as anesthesiology, diagnostic radiology,
94 internal medicine, and pathology.
95

96 **I.B. Participating Sites**

97
98 **I.B.1. There must be a program letter of agreement (PLA) between the**
99 **program and each participating site providing a required**
100 **assignment. The PLA must be renewed at least every five years.**

101
102 **The PLA should:**

- 103
104 **I.B.1.a)** identify the faculty who will assume both educational and
105 supervisory responsibilities for fellows;
106
107 **I.B.1.b)** specify their responsibilities for teaching, supervision, and
108 formal evaluation of fellows, as specified later in this
109 document;
110
111 **I.B.1.c)** specify the duration and content of the educational
112 experience; and,
113
114 **I.B.1.d)** state the policies and procedures that will govern fellow
115 education during the assignment.
116
117 **I.B.2.** The program director must submit any additions or deletions of
118 participating sites routinely providing an educational experience,
119 required for all fellows, of one month full time equivalent (FTE) or
120 more through the Accreditation Council for Graduate Medical
121 Education (ACGME) Accreditation Data System (ADS).
122
123 **I.B.2.a)** Clinical assignments to participating sites must be approved prior
124 to fellows' rotating to the sites, and must not be more than three
125 months in length.
126
127 **II. Program Personnel and Resources**
128
129 **II.A. Program Director**
130
131 **II.A.1.** There must be a single program director with authority and
132 accountability for the operation of the program. The sponsoring
133 institution's GMEC must approve a change in program director.
134 After approval, the program director must submit this change to the
135 ACGME via the ADS.
136
137 **II.A.1.a)** The length of the program director's appointment must be at least
138 two years.
139
140 **II.A.2. Qualifications of the program director must include:**
141
142 **II.A.2.a)** requisite specialty expertise and documented educational
143 and administrative experience acceptable to the Review
144 Committee;
145
146 **II.A.2.b)** current certification in the subspecialty by the American
147 Board of Surgery or subspecialty qualifications that are
148 acceptable to the Review Committee; and,
149
150 **II.A.2.c)** current medical licensure and appropriate medical staff
151 appointment.
152
153 **II.A.2.c).(1)** This must include unrestricted credentials at the primary

- 154 clinical site, and
 155
 156 II.A.2.c).(2) The program director should possess licensure to practice
 157 medicine in the state where the primary clinical site is
 158 located.
 159
 160 II.A.2.d) faculty appointment in good standing at the primary clinical site.
 161
 162 **II.A.3. The program director must administer and maintain an educational**
 163 **environment conducive to educating the fellows in each of the**
 164 **ACGME competency areas. The program director must:**
 165
 166 **II.A.3.a) prepare and submit all information required and requested by**
 167 **the ACGME;**
 168
 169 **II.A.3.b) be familiar with and oversee compliance with ACGME and**
 170 **Review Committee policies and procedures as outlined in the**
 171 **ACGME Manual of Policies and Procedures;**
 172
 173 **II.A.3.c) obtain review and approval of the sponsoring institution's**
 174 **GMEC/DIO before submitting to the ACGME information or**
 175 **requests for the following:**
 176
 177 **II.A.3.c).(1) all applications for ACGME accreditation of new**
 178 **programs;**
 179
 180 **II.A.3.c).(2) changes in fellow complement;**
 181
 182 **II.A.3.c).(3) major changes in program structure or length of**
 183 **training;**
 184
 185 **II.A.3.c).(4) progress reports requested by the Review Committee;**
 186
 187 **II.A.3.c).(5) responses to all proposed adverse actions;**
 188
 189 **II.A.3.c).(6) requests for increases or any change to fellow duty**
 190 **hours;**
 191
 192 **II.A.3.c).(7) voluntary withdrawals of ACGME-accredited**
 193 **programs;**
 194
 195 **II.A.3.c).(8) requests for appeal of an adverse action; and,**
 196
 197 **II.A.3.c).(9) appeal presentations to a Board of Appeal or the**
 198 **ACGME.**
 199
 200 **II.A.3.d) obtain DIO review and co-signature on all program**
 201 **information forms, as well as any correspondence or**
 202 **document submitted to the ACGME that addresses:**
 203
 204 **II.A.3.d).(1) program citations, and/or**

205		
206	II.A.3.d).(2)	request for changes in the program that would have significant impact, including financial, on the program or institution.
207		
208		
209		
210	II.A.3.e)	maintain a collegial relationship with faculty members to enhance the educational opportunities for all fellows; and,
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212		
213	II.A.3.f)	direct or co-direct one or more of the critical care units in which the clinical aspects of the educational program take place, and personally supervise and teach surgery and surgical critical care fellows in that unit.
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218	II.B.	Faculty
219		
220	II.B.1.	There must be a sufficient number of faculty with documented qualifications to instruct and supervise all fellows.
221		
222		
223	II.B.1.a)	In addition to the program director, at least one surgeon certified in surgical critical care must be appointed to the faculty for every critical care fellow enrolled in the program.
224		
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226		
227	II.B.2.	The faculty must devote sufficient time to the educational program to fulfill their supervisory and teaching responsibilities and demonstrate a strong interest in the education of fellows.
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229		
230		
231	II.B.3.	The physician faculty must have current certification in the sub specialty by the American Board of Surgery, or possess qualifications acceptable to the Review Committee.
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235	II.B.4.	The physician faculty must possess current medical licensure and appropriate medical staff appointment.
236		
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238	II.B.5.	Non-surgical physician faculty members must be certified in critical care in their specialty area or possess alternative qualifications judged to be acceptable by the Review Committee.
239		
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242	II.B.6.	Faculty members must regularly participate in organized clinical discussions, rounds, journal clubs, and conferences.
243		
244		
245	II.B.7.	Faculty members must establish and maintain an environment of inquiry and scholarship with an active research component.
246		
247		
248	II.B.7.a)	The program director and some members of the faculty should also demonstrate scholarship by one or more of the following:
249		
250		
251	II.B.7.a).(1)	peer-reviewed funding;
252		
253	II.B.7.a).(2)	publication of original research or review articles in peer-reviewed journals, or chapters in textbooks;
254		
255		

256 II.B.7.a).(3) publication or presentation of case reports or clinical series
257 at local, regional, or national professional and scientific
258 society meetings; or,
259

260 II.B.7.a).(4) participation in national committees or educational
261 organizations.
262

263 **II.C. Other Program Personnel**

264
265 **The institution and the program must jointly ensure the availability of all**
266 **necessary professional, technical, and clerical personnel for the effective**
267 **administration of the program.**
268

269 II.C.1. Staff members must include specially-trained nurses and technicians
270 skilled in critical care instrumentation, respiratory function, and laboratory
271 medicine.
272

273 **II.D. Resources**

274
275 **The institution and the program must jointly ensure the availability of**
276 **adequate resources for fellow education, as defined in the specialty**
277 **program requirements.**
278

279 II.D.1. Resources should include a simulation and skills laboratory.
280

281 II.D.2. Resources must include:
282

283 II.D.2.a) a critical care unit located in a designated area within the
284 institution, constructed and designed specifically for the care of
285 critically-ill patients;
286

287 II.D.2.b) a common office space for fellows that includes a sufficient
288 number of computers and adequate workspace at the primary
289 clinical site;
290

291 II.D.2.c) online radiographic and laboratory systems at the primary clinical
292 site and participating sites;
293

294 II.D.2.d) software resources for production of presentations, manuscripts,
295 and portfolios;
296

297 II.D.2.e) an average daily census of at least 10 patients in each intensive
298 care unit to which a fellow is assigned; and,
299

300 II.D.2.f) an average daily census for each critical care unit to which fellows
301 are assigned that ensures a fellow-to-patient ratio of 1:10.
302

303 II.D.3. The education must take place in care settings for critically-ill adult and/or
304 pediatric surgical patients.
305

306 **II.E. Medical Information Access**

307
308 **Fellows must have ready access to specialty-specific and other appropriate**
309 **reference material in print or electronic format. Electronic medical literature**
310 **databases with search capabilities should be available.**

311
312 II.E.1. Fellows must have Internet access to full-text journals and electronic
313 medical reference resources for education and patient care at all
314 participating sites.

315
316 **III. Fellow Appointments**

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318 **III.A. Eligibility Criteria**

319
320 **Each fellow must successfully complete an ACGME-accredited specialty**
321 **program and/or meet other eligibility criteria as specified by the Review**
322 **Committee. The program must document that each fellow has met the**
323 **eligibility criteria.**

324
325 III.A.1. Prior to appointment in the program, fellows must have completed at least
326 three clinical years in an ACGME-accredited graduate educational
327 program in one of the following specialties: anesthesiology, emergency
328 medicine, neurological surgery, obstetrics and gynecology, orthopaedic
329 surgery, otolaryngology, surgery, thoracic surgery, vascular surgery, or
330 urology.

331
332 III.A.1.a) Fellows, who have completed an emergency medicine residency,
333 must also complete one preliminary year of education in the
334 surgery program at the institution where they will enroll in the
335 surgical critical care fellowship. At a minimum the preliminary year
336 of education must include supervised clinical experience in:

337
338 III.A.1.a).(1) pre-operative evaluation, including respiratory,
339 cardiovascular, and nutritional evaluation;

340
341 III.A.1.a).(2) pre-operative and post-operative care of surgical patients,
342 including outpatient follow-up care;

343
344 III.A.1.a).(3) care of injured patients;

345
346 III.A.1.a).(4) care of patients requiring abdominal, breast, head and
347 neck, endocrine, thoracic, and vascular operations;

348
349 III.A.1.a).(5) management of complex wounds; and,

350
351 III.A.1.a).(6) minor operative procedures related to critical care, such as
352 venous access, tube thoracostomy, and tracheostomy.

353
354 **III.B. Number of Fellows**

355
356 **The program director may not appoint more fellows than approved by the**
357 **Review Committee, unless otherwise stated in the specialty-specific**

358 **requirements. The program's educational resources must be adequate to**
359 **support the number of fellows appointed to the program.**
360

361 III.C. The presence of other learners, including residents from other specialties,
362 subspecialty fellows, PhD students, and nurse practitioners, in the program must
363 not interfere with the appointed fellows' education. The program director must
364 report the presence of other learners to the DIO and GMEC in accordance with
365 sponsoring institution guidelines.
366

367 **IV. Educational Program**

368
369 **IV.A. The curriculum must contain the following educational components:**
370

371 **IV.A.1. Skills and competencies the fellow will be able to demonstrate at the**
372 **conclusion of the program. The program must distribute these skills**
373 **and competencies to fellows and faculty annually, in either written**
374 **or electronic form. These skills and competencies should be**
375 **reviewed by the fellow at the start of each rotation;**
376

377 **IV.A.2. ACGME Competencies**

378
379 **The program must integrate the following ACGME competencies**
380 **into the curriculum:**
381

382 **IV.A.2.a) Patient Care**

383
384 **Fellows must be able to provide patient care that is**
385 **compassionate, appropriate, and effective for the treatment of**
386 **health problems and the promotion of health. Fellows:**
387

388 IV.A.2.a).(1) must have supervised training that will enable them to
389 demonstrate competence in the following critical care
390 skills:
391

392 IV.A.2.a).(1).(a) circulatory: performance of invasive and
393 noninvasive monitoring techniques, and the use of
394 vasoactive agents and management of hypotension
395 and shock; application of trans-esophageal and
396 transthoracic cardiac ultrasound and transvenous
397 pacemakers, dysrhythmia diagnosis and treatment,
398 and the management of cardiac assist devices;
399

400 IV.A.2.a).(1).(b) endocrine: performance of the diagnosis and
401 management of acute endocrine disorders,
402 including those of the pancreas, thyroid, adrenals,
403 and pituitary;
404

405 IV.A.2.a).(1).(c) gastrointestinal: performance of utilization of
406 gastrointestinal intubation and endoscopic
407 techniques in the management of the critically-ill
408 patient; and management of stomas, fistulas, and

409		percutaneous catheter devices;
410		
411	IV.A.2.a).(1).(d)	hematologic: performance of assessment of coagulation status, and appropriate use of component therapy;
412		
413		
414		
415	IV.A.2.a).(1).(e)	infectious disease: performance of classification of infections and application of isolation techniques, pharmacokinetics, drug interactions, and management of antibiotic therapy during organ failure; nosocomial infections; and management of sepsis and septic shock;
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422	IV.A.2.a).(1).(f)	monitoring/bioengineering: performance of the use and calibration of transducers and other medical devices;
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426	IV.A.2.a).(1).(g)	neurological: performance of management of intracranial pressure and acute neurologic emergencies, including application of the use of intracranial pressure monitoring techniques and electroencephalography to evaluate cerebral function;
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433	IV.A.2.a).(1).(h)	nutritional: performance of the use of parenteral and enteral nutrition, and monitoring and assessing metabolism and nutrition;
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436		
437	IV.A.2.a).(1).(i)	renal: performance of the evaluation of renal function; use of renal replacement therapies; management of hemodialysis, and management of electrolyte disorders and acid-base disturbances; and application of knowledge of the indications for and complications of hemodialysis; and,
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444	IV.A.2.a).(1).(j)	respiratory: performance of airway management, including techniques of intubation, endoscopy, and tracheostomy, as well as ventilator management.
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448	IV.A.2.a).(2)	must demonstrate competence in the application of the following critical care skills:
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450		
451	IV.A.2.a).(2).(a)	circulatory: transvenous pacemakers; dysrhythmia diagnosis and treatment, and the management of cardiac assist devices; and use of vasoactive agents and the management of hypotension and shock;
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456		
457	IV.A.2.a).(2).(b)	neurological: the use of intracranial pressure monitoring techniques and electroencephalography to evaluate cerebral function;
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461	IV.A.2.a).(2).(c)	renal: knowledge of the indications for and complications of hemodialysis, and management of electrolyte disorders and acid-base disturbances;
462		
463		
464		and,
465		
466	IV.A.2.a).(2).(d)	miscellaneous: performance of the use of special beds for specific injuries, and employment of skeletal traction and fixation devices.
467		
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469		
470	IV.A.2.b)	Medical Knowledge
471		
472		Fellows must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological and social-behavioral sciences, as well as the application of this knowledge to patient care. Fellows:
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476		
477	IV.A.2.b).(1)	must demonstrate advanced knowledge of the following aspects of critical care, particularly as they relate to the management of patients with hemodynamic instability, multiple system organ failure, and complex coexisting medical problems:
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483	IV.A.2.b).(1).(a)	biostatistics and experimental design;
484		
485	IV.A.2.b).(1).(b)	cardiorespiratory resuscitation;
486		
487	IV.A.2.b).(1).(c)	critical obstetric and gynecologic disorders;
488		
489	IV.A.2.b).(1).(d)	critical pediatric surgical conditions;
490		
491	IV.A.2.b).(1).(e)	ethical and legal aspects of surgical critical care;
492		
493	IV.A.2.b).(1).(f)	hematologic and coagulation disorders;
494		
495	IV.A.2.b).(1).(g)	inhalation and immersion injuries;
496		
497	IV.A.2.b).(1).(h)	metabolic, nutritional, and endocrine effects of critical illness;
498		
499		
500	IV.A.2.b).(1).(i)	monitoring and medical instrumentation;
501		
502	IV.A.2.b).(1).(j)	pharmacokinetics and dynamics of drug metabolism and excretion in critical illness;
503		
504		
505	IV.A.2.b).(1).(k)	physiology, pathophysiology, diagnosis, and therapy of disorders of the cardiovascular, respiratory, gastrointestinal, genitourinary, neurological, endocrine, musculoskeletal, and immune systems, as well as of infectious diseases;
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511 IV.A.2.b).(1).(l) principles and techniques of administration and
512 management; and,

513
514 IV.A.2.b).(1).(m) trauma, thermal, electrical, and radiation injuries.

515
516 **IV.A.2.c) Practice-based Learning and Improvement**

517
518 **Fellows are expected to develop skills and habits to be able**
519 **to meet the following goals:**

520
521 **IV.A.2.c).(1) systematically analyze practice using quality**
522 **improvement methods, and implement changes with**
523 **the goal of practice improvement;**

524
525 **IV.A.2.c).(2) locate, appraise, and assimilate evidence from**
526 **scientific studies related to their patients' health**
527 **problems.**

528
529 **IV.A.2.d) Interpersonal and Communication Skills**

530
531 **Fellows must demonstrate interpersonal and communication**
532 **skills that result in the effective exchange of information and**
533 **collaboration with patients, their families, and health**
534 **professionals.**

535
536 **IV.A.2.d).(1) Fellows must demonstrate effective skills in teaching the**
537 **specialty of surgical critical care.**

538
539 **IV.A.2.e) Professionalism**

540
541 **Fellows must demonstrate a commitment to carrying out**
542 **professional responsibilities and an adherence to ethical**
543 **principles.**

544
545 **IV.A.2.f) Systems-based Practice**

546
547 **Fellows must demonstrate an awareness of and**
548 **responsiveness to the larger context and system of health**
549 **care, as well as the ability to call effectively on other**
550 **resources in the system to provide optimal health care.**

551
552 **IV.A.2.f).(1) Fellows must be able to administer a surgical critical care**
553 **unit and appoint, educate, and supervise specialized**
554 **personnel; establish policy and procedures for the unit;**
555 **and coordinate the activities of the unit with other**
556 **administrative units within the hospital.**

557
558 **IV.A.3. Curriculum Organization and Fellow Experiences**

559
560 **IV.A.3.a) All 12 months must be devoted to advanced educational and**
561 **clinical activities related to the care of critically-ill patients and to**

562		the administration of critical care units.
563		
564	IV.A.3.a).(1)	At least eight months must be in a surgical intensive care unit.
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566		
567	IV.A.3.a).(1).(a)	At least five of the eight months should be in a unit in which a surgeon is director or co-director.
568		
569		
570	IV.A.3.a).(1).(b)	The surgical intensive care unit must be largely dedicated to the care of one or more of the following surgical patients: adult surgical, burn, cardiothoracic, neurosurgical, pediatric surgical, transplant, and trauma.
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576	IV.A.3.a).(2)	No more than two months should be in non-surgical intensive care units, such as medical, cardiac, or pediatric units.
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579		
580	IV.A.3.a).(3)	No more than two months should be in elective rotations in areas relevant to critical care, such as trauma or acute care surgery.
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582		
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584	IV.A.3.a).(3).(a)	Elective clinical rotations done outside of the critical care unit should involve the care of patients with acute surgical diseases such as those related to injury or emergent surgical conditions.
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589	IV.A.3.b)	The core curriculum must include a regularly-scheduled didactic program based on the core knowledge content and areas defined as a fellow's outcomes in the specialty.
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593	IV.A.3.c)	Participation in direct operative care of critically-ill patients in the operating room during critical care rotations should not be so great as to interfere with the primary educational purpose of the critical care rotation.
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598	IV.A.3.d)	Fellows must keep two written records of their experience: a summary record documenting the numbers and types of critical care patients; and an operative log of numbers and types of operative experiences, including bedside procedures.
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603	IV.A.3.e)	A chief resident in surgery and a fellow in surgical critical care must not have primary responsibility for the same patient.
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606	IV.B.	Fellows' Scholarly Activities
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608	V.	Evaluation
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610	V.A.	Fellow Evaluation
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612	V.A.1.	Formative Evaluation

- 613
614 **V.A.1.a)** **The faculty must evaluate fellow performance in a timely**
615 **manner.**
616
- 617 **V.A.1.b)** **The program must:**
618
- 619 **V.A.1.b).(1)** **provide objective assessments of competence in**
620 **patient care, medical knowledge, practice-based**
621 **learning and improvement, interpersonal and**
622 **communication skills, professionalism, and systems-**
623 **based practice;**
624
- 625 **V.A.1.b).(2)** **use multiple evaluators (e.g., faculty, peers, patients,**
626 **self, and other professional staff); and,**
627
- 628 **V.A.1.b).(3)** **provide each fellow with documented semiannual**
629 **evaluation of performance with feedback.**
630
- 631 **V.A.1.c)** **The evaluations of fellow performance must be accessible for**
632 **review by the fellow, in accordance with institutional policy.**
633
- 634 **V.A.1.d)** **Semiannual assessment must include a review of case volume,**
635 **breadth, and complexity, and must ensure that fellows are**
636 **maintaining the required written records.**
637
- 638 **V.A.2.** **Summative Evaluation**
639
- 640 **The program director must provide a summative evaluation for each**
641 **fellow upon completion of the program. This evaluation must**
642 **become part of the fellow’s permanent record maintained by the**
643 **institution, and must be accessible for review by the fellow in**
644 **accordance with institutional policy. This evaluation must:**
645
- 646 **V.A.2.a)** **document the fellow’s performance during their education,**
647 **and**
648
- 649 **V.A.2.b)** **verify that the fellow has demonstrated sufficient competence**
650 **to enter practice without direct supervision.**
651
- 652 **V.B.** **Faculty Evaluation**
653
- 654 **V.B.1.** **At least annually, the program must evaluate faculty performance as**
655 **it relates to the educational program.**
656
- 657 **V.B.2.** **These evaluations should include a review of the faculty’s clinical**
658 **teaching abilities, commitment to the educational program, clinical**
659 **knowledge, professionalism, and scholarly activities.**
660
- 661 **V.C.** **Program Evaluation and Improvement**
662
- 663 **V.C.1.** **The program must document formal, systematic evaluation of the**

- 664 curriculum at least annually. The program must monitor and track
665 each of the following areas:
666
- 667 V.C.1.a) fellow performance, and
668
669 V.C.1.b) faculty development.
670
- 671 V.C.2. If deficiencies are found, the program should prepare a written plan
672 of action to document initiatives to improve performance in the
673 areas listed in section V.C.1. The action plan should be reviewed
674 and approved by the teaching faculty and documented in meeting
675 minutes.
676
- 677 V.C.3. 65% of a program's graduates from the preceding five years taking the
678 American Board of Surgery certifying examination for surgical critical care
679 for the first time must pass.
680
- 681 VI. Fellow Duty Hours in the Learning and Working Environment
682
- 683 VI.A. Professionalism, Personal Responsibility, and Patient Safety
684
- 685 VI.A.1. Programs and sponsoring institutions must educate fellows and
686 faculty members concerning the professional responsibilities of
687 physicians to appear for duty appropriately rested and fit to provide
688 the services required by their patients.
689
- 690 VI.A.2. The program must be committed to and responsible for promoting
691 patient safety and fellow well-being in a supportive educational
692 environment.
693
- 694 VI.A.3. The program director must ensure that fellows are integrated and
695 actively participate in interdisciplinary clinical quality improvement
696 and patient safety programs.
697
- 698 VI.A.4. The learning objectives of the program must:
699
- 700 VI.A.4.a) be accomplished through an appropriate blend of supervised
701 patient care responsibilities, clinical teaching, and didactic
702 educational events; and,
703
- 704 VI.A.4.b) not be compromised by excessive reliance on fellows to fulfill
705 non-physician service obligations.
706
- 707 VI.A.5. The program director and sponsoring institution must ensure a
708 culture of professionalism that supports patient safety and personal
709 responsibility. Fellows and faculty members must demonstrate an
710 understanding and acceptance of their personal role in the
711 following:
712
- 713 VI.A.5.a) assurance of the safety and welfare of patients entrusted to
714 their care;

715		
716	VI.A.5.b)	provision of patient- and family-centered care;
717		
718	VI.A.5.c)	assurance of their fitness for duty;
719		
720	VI.A.5.d)	management of their time before, during, and after clinical assignments;
721		
722		
723	VI.A.5.e)	recognition of impairment, including illness and fatigue, in themselves and in their peers;
724		
725		
726	VI.A.5.f)	attention to lifelong learning;
727		
728	VI.A.5.g)	the monitoring of their patient care performance improvement indicators; and,
729		
730		
731	VI.A.5.h)	honest and accurate reporting of duty hours, patient outcomes, and clinical experience data.
732		
733		
734	VI.A.6.	All fellows and faculty members must demonstrate responsiveness to patient needs that supersedes self-interest. Physicians must recognize that under certain circumstances, the best interests of the patient may be served by transitioning that patient's care to another qualified and rested provider.
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740	VI.B.	Transitions of Care
741		
742	VI.B.1.	Programs must design clinical assignments to minimize the number of transitions in patient care.
743		
744		
745	VI.B.2.	Sponsoring institutions and programs must ensure and monitor effective, structured hand-over processes to facilitate both continuity of care and patient safety.
746		
747		
748		
749	VI.B.3.	Programs must ensure that fellows are competent in communicating with team members in the hand-over process.
750		
751		
752	VI.B.4.	The sponsoring institution must ensure the availability of schedules that inform all members of the health care team of attending physicians and fellows currently responsible for each patient's care.
753		
754		
755		
756	VI.C.	Alertness Management/Fatigue Mitigation
757		
758	VI.C.1.	The program must:
759		
760	VI.C.1.a)	educate all faculty members and fellows to recognize the signs of fatigue and sleep deprivation;
761		
762		
763	VI.C.1.b)	educate all faculty members and fellows in alertness management and fatigue mitigation processes; and,
764		
765		

- 766 VI.C.1.c) adopt fatigue mitigation processes to manage the potential
767 negative effects of fatigue on patient care and learning, such
768 as naps or back-up call schedules.
769
- 770 VI.C.2. Each program must have a process to ensure continuity of patient
771 care in the event that a fellow may be unable to perform his/her
772 patient care duties.
773
- 774 VI.C.3. The sponsoring institution must provide adequate sleep facilities
775 and/or safe transportation options for fellows who may be too
776 fatigued to safely return home.
777
- 778 VI.D. **Supervision of Fellows**
779
- 780 VI.D.1. In the clinical learning environment, each patient must have an
781 identifiable, appropriately-credentialed and privileged attending
782 physician (or licensed independent practitioner as approved by each
783 Review Committee) who is ultimately responsible for that patient's
784 care.
785
- 786 VI.D.1.a) This information should be available to fellows, faculty
787 members, and patients.
788
- 789 VI.D.1.b) Fellows and faculty members should inform patients of their
790 respective roles in each patient's care.
791
- 792 VI.D.2. The program must demonstrate that the appropriate level of
793 supervision is in place for all fellows who care for patients.
794
- 795 Supervision may be exercised through a variety of methods. Some
796 activities require the physical presence of the supervising faculty
797 member. For many aspects of patient care, the supervising
798 physician may be a more advanced fellow. Other portions of care
799 provided by the fellow can be adequately supervised by the
800 immediate availability of the supervising faculty member or fellow
801 physician, either in the institution, or by means of telephonic and/or
802 electronic modalities. In some circumstances, supervision may
803 include post-hoc review of fellow-delivered care with feedback as to
804 the appropriateness of that care.
805
- 806 VI.D.3. **Levels of Supervision**
807
- 808 To ensure oversight of fellow supervision and graded authority and
809 responsibility, the program must use the following classification of
810 supervision:
811
- 812 VI.D.3.a) **Direct Supervision** – the supervising physician is physically
813 present with the fellow and patient.
814
- 815 VI.D.3.b) **Indirect Supervision:**
816

- 817 VI.D.3.b).(1) with direct supervision immediately available – the
818 supervising physician is physically within the hospital
819 or other site of patient care, and is immediately
820 available to provide Direct Supervision.
821
- 822 VI.D.3.b).(2) with direct supervision available – the supervising
823 physician is not physically present within the hospital
824 or other site of patient care, but is immediately
825 available by means of telephonic and/or electronic
826 modalities, and is available to provide Direct
827 Supervision.
828
- 829 VI.D.3.c) Oversight – the supervising physician is available to provide
830 review of procedures/encounters with feedback provided
831 after care is delivered.
832
- 833 VI.D.4. The privilege of progressive authority and responsibility, conditional
834 independence, and a supervisory role in patient care delegated to
835 each fellow must be assigned by the program director and faculty
836 members.
837
- 838 VI.D.4.a) The program director must evaluate each fellow’s abilities
839 based on specific criteria. When available, evaluation should
840 be guided by specific national standards-based criteria.
841
- 842 VI.D.4.b) Faculty members functioning as supervising physicians
843 should delegate portions of care to fellows, based on the
844 needs of the patient and the skills of the fellows.
845
- 846 VI.D.4.c) Fellows should serve in a supervisory role of residents or
847 junior fellows in recognition of their progress toward
848 independence, based on the needs of each patient and the
849 skills of the individual fellow.
850
- 851 VI.D.5. Programs must set guidelines for circumstances and events in
852 which fellows must communicate with appropriate supervising
853 faculty members, such as the transfer of a patient to an intensive
854 care unit, or end-of-life decisions.
855
- 856 VI.D.5.a) Each fellow must know the limits of his/her scope of
857 authority, and the circumstances under which he/she is
858 permitted to act with conditional independence.
859
- 860 VI.D.6. Faculty supervision assignments should be of sufficient duration to
861 assess the knowledge and skills of each fellow and delegate to
862 him/her the appropriate level of patient care authority and
863 responsibility.
864
- 865 VI.E. Clinical Responsibilities
866
867 The clinical responsibilities for each fellow must be based on PGY-level,

- 868 **patient safety, fellow education, severity and complexity of patient**
869 **illness/condition and available support services.**
870
- 871 VI.E.1. The workload associated with optimal clinical care of surgical patients is a
872 continuum from the moment of admission to the point of discharge.
873
- 874 VI.E.2. During the residency education process, surgical teams should be made
875 up of attending surgeons, residents at various PG levels, medical
876 students (when appropriate), and other health care providers.
877
- 878 VI.E.3. The work of the caregiver team should be assigned to team members
879 based on each member's level of education, experience, and
880 competence.
881
- 882 VI.E.4. As fellows progress through levels of increasing competence and
883 responsibility, it is expected that work assignments will keep pace with
884 their advancement.
885
- 886 **VI.F. Teamwork**
887
- 888 **Fellows must care for patients in an environment that maximizes effective**
889 **communication. This must include the opportunity to work as a member of**
890 **effective interprofessional teams that are appropriate to the delivery of care**
891 **in the specialty.**
892
- 893 VI.F.1. Effective surgical practices entail the involvement of members with a mix
894 of complementary skills and attributes (physicians, nurses, and other
895 staff). Success requires both an unwavering mutual respect for those
896 skills and contributions, and a shared commitment to the process of
897 patient care.
898
- 899 VI.F.2. Fellows must collaborate with fellow surgical residents, and especially
900 with faculty, other physicians outside of their specialty, and non-traditional
901 health care providers, to best formulate treatment plans for an
902 increasingly diverse patient population.
903
- 904 VI.F.3. Fellows must assume personal responsibility to complete all tasks to
905 which they are assigned (or which they voluntarily assume) in a timely
906 fashion. These tasks must be completed in the hours assigned, or, if that
907 is not possible, fellows must learn and utilize the established methods for
908 handing off remaining tasks to another member of the fellow team so that
909 patient care is not compromised.
910
- 911 VI.F.4. Lines of authority should be defined by programs, and all fellows must
912 have a working knowledge of these expected reporting relationships to
913 maximize quality care and patient safety.
914
- 915 **VI.G. Fellow Duty Hours**
916
- 917 **VI.G.1. Maximum Hours of Work per Week**
918

919 **Duty hours must be limited to 80 hours per week, averaged over a**
920 **four-week period, inclusive of all in-house call activities and all**
921 **moonlighting.**
922

923 **VI.G.1.a) Duty Hour Exceptions**
924
925 **A Review Committee may grant exceptions for up to 10% or a**
926 **maximum of 88 hours to individual programs based on a**
927 **sound educational rationale.**
928
929 **The Review Committee for General Surgery will not consider**
930 **requests for exceptions to the 80-hour limit to the fellows' work**
931 **week.**
932

933 **VI.G.1.a).(1) In preparing a request for an exception the program**
934 **director must follow the duty hour exception policy**
935 **from the ACGME Manual on Policies and Procedures.**
936

937 **VI.G.1.a).(2) Prior to submitting the request to the Review**
938 **Committee, the program director must obtain approval**
939 **of the institution's GMEC and DIO.**
940

941 **VI.G.2. Moonlighting**
942

943 **VI.G.2.a) Moonlighting must not interfere with the ability of the fellow**
944 **to achieve the goals and objectives of the educational**
945 **program.**
946

947 **VI.G.2.b) Time spent by fellows in Internal and External Moonlighting**
948 **(as defined in the ACGME Glossary of Terms) must be**
949 **counted towards the 80-hour Maximum Weekly Hour Limit.**
950

951 **VI.G.3. Mandatory Time Free of Duty**
952
953 **Fellows must be scheduled for a minimum of one day free of duty**
954 **every week (when averaged over four weeks). At-home call cannot**
955 **be assigned on these free days.**
956

957 **VI.G.4. Maximum Duty Period Length**
958
959 **Duty periods of fellows may be scheduled to a maximum of 24 hours**
960 **of continuous duty in the hospital. Programs must encourage**
961 **fellows to use alertness management strategies in the context of**
962 **patient care responsibilities. Strategic napping, especially after 16**
963 **hours of continuous duty and between the hours of 10:00 p.m. and**
964 **8:00 a.m., is strongly suggested.**
965

966 **VI.G.4.a) It is essential for patient safety and fellow education that**
967 **effective transitions in care occur. Fellows may be allowed to**
968 **remain on-site in order to accomplish these tasks; however,**
969 **this period of time must be no longer than an additional four**

970		hours.
971		
972	VI.G.4.b)	Fellows must not be assigned additional clinical responsibilities after 24 hours of continuous in-house duty.
973		
974		
975	VI.G.4.c)	In unusual circumstances, fellows, on their own initiative, may remain beyond their scheduled period of duty to continue to provide care to a single patient. Justifications for such extensions of duty are limited to reasons of required continuity for a severely ill or unstable patient, academic importance of the events transpiring, or humanistic attention to the needs of a patient or family.
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983	VI.G.4.c).(1)	Under those circumstances, the fellow must:
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985	VI.G.4.c).(1).(a)	appropriately hand over the care of all other patients to the team responsible for their continuing care; and,
986		
987		
988		
989	VI.G.4.c).(1).(b)	document the reasons for remaining to care for the patient in question and submit that documentation in every circumstance to the program director.
990		
991		
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994	VI.G.4.c).(2)	The program director must review each submission of additional service, and track both individual fellow and program-wide episodes of additional duty.
995		
996		
997		
998	VI.G.5.	Minimum Time Off between Scheduled Duty Periods
999		
1000	VI.G.5.a)	Fellows must be prepared to enter the unsupervised practice of medicine and care for patients over irregular or extended periods.
1001		
1002		
1003		
1004		Surgical critical care fellows are considered to be in the final years of education.
1005		
1006		
1007	VI.G.5.a).(1)	This preparation must occur within the context of the 80-hour, maximum duty period length, and one-day-off-in-seven standards. While it is desirable that fellows have eight hours free of duty between scheduled duty periods, there may be circumstances when these fellows must stay on duty to care for their patients or return to the hospital with fewer than eight hours free of duty.
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1016	VI.G.5.a).(1).(a)	Circumstances of return-to-hospital activities with fewer than eight hours away from the hospital by fellows must be monitored by the program director.
1017		
1018		
1019		
1020		

1021 VI.G.5.a).(1).(b) The Review Committee defines such
1022 circumstances as: required continuity of care for a
1023 severely ill or unstable patient, or a complex patient
1024 with whom the fellow has been involved; events of
1025 exceptional educational value; or, humanistic
1026 attention to the needs of a patient or family.
1027

1028 **VI.G.6. Maximum Frequency of In-House Night Float**

1029
1030 **Fellows must not be scheduled for more than six consecutive nights**
1031 **of night float.**
1032

1033 VI.G.6.a) Any rotation that requires fellows to work nights in succession is
1034 considered a night float rotation, and the total time on nights is
1035 counted toward the maximum allowable time for each fellow.
1036

1037 VI.G.6.b) Night float rotations must not exceed two months in succession, or
1038 three months in succession for rotations with night shifts
1039 alternating with day shifts.
1040

1041 VI.G.6.c) There can be no more than four months of night float per year.
1042

1043 VI.G.6.d) There must be at least two months between each night float
1044 rotation.
1045

1046 **VI.G.7. Maximum In-House On-Call Frequency**

1047
1048 **Fellows must be scheduled for in-house call no more frequently than**
1049 **every-third-night (when averaged over a four-week period).**
1050

1051 **VI.G.8. At-Home Call**

1052
1053 **VI.G.8.a) Time spent in the hospital by fellows on at-home call must**
1054 **count towards the 80-hour maximum weekly hour limit. The**
1055 **frequency of at-home call is not subject to the every-third-**
1056 **night limitation, but must satisfy the requirement for one-day-**
1057 **in-seven free of duty, when averaged over four weeks.**
1058

1059 **VI.G.8.a).(1) At-home call must not be so frequent or taxing as to**
1060 **preclude rest or reasonable personal time for each**
1061 **fellow.**
1062

1063 **VI.G.8.b) Fellows are permitted to return to the hospital while on at-**
1064 **home call to care for new or established patients. Each**
1065 **episode of this type of care, while it must be included in the**
1066 **80-hour weekly maximum, will not initiate a new “off-duty**
1067 **period”.**
1068

1069 ***
1070

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